

217/782-2113

"Renewal"  
CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT

PERMITTEE:

Shell Pipeline Company, LP - Patoka Terminal  
Attn: Joe Miller  
777 Walker Street, Room TSP-1586  
Houston, Texas 77002

I.D. No.: 121810AAA

Date Received: May 5, 2006

Application No.: 95080174

Date Issued:

Expiration Date<sup>1</sup>:

Operation of: Shell Pipeline Company, LP - Patoka Terminal, Pipe Line  
Breakout Station

Source Location: 1643 Dickey Pond Road, Vernon, Marion County, 62892

Responsible Official: Greg Smith, Regional Operations Manager

This permit is hereby granted to the above-designated Permittee to OPERATE a Pipe line breakout station, pursuant to the above referenced permit application. This permit is subject to the conditions contained herein. If you have any questions concerning this permit, please contact Jack Yates at 217/782-2113.

Donald E. Sutton, P.E.  
Manager, Permit Section  
Division of Air Pollution Control

DES:JMY:psj

cc: Illinois EPA, FOS, Region 3  
CES  
Lotus Notes  
Operator's address as shown in Section 1.0

1 Except as provided in Condition 8.7 of this permit.

## TABLE OF CONTENTS

	<u>Page</u>
<b>1.0 INTRODUCTION</b>	<b>4</b>
1.1 Source Identification	
1.2 Owner/Parent Company	
1.3 Operator	
1.4 Source Description	
1.5 Title I Conditions	
<b>2.0 LIST OF ABBREVIATIONS AND ACRONYMS COMMONLY USED</b>	<b>5</b>
<b>3.0 CONDITIONS FOR INSIGNIFICANT ACTIVITIES</b>	<b>6</b>
3.1 Identification of Insignificant Activities	
3.2 Compliance with Applicable Requirements	
3.3 Addition of Insignificant Activities	
<b>4.0 SIGNIFICANT EMISSION UNITS AT THIS SOURCE</b>	<b>8</b>
<b>5.0 OVERALL SOURCE CONDITIONS</b>	<b>9</b>
5.1 Applicability of Clean Air Act Permit Program (CAAPP)	
5.2 Area Designation	
5.3 Source-Wide Applicable Provisions and Regulations	
5.4 Source-Wide Non-Applicability of Regulations of Concern	
5.5 Source-Wide Control Requirements and Work Practices	
5.6 Source-Wide Production and Emission Limitations	
5.7 Source-Wide Testing Requirements	
5.8 Source-Wide Monitoring Requirements	
5.9 Source-Wide Recordkeeping Requirements	
5.10 Source-Wide Reporting Requirements	
5.11 Source-Wide Operational Flexibility/Anticipated Operating Scenarios	
5.12 Source-Wide Compliance Procedures	
<b>6.0 CONDITIONS FOR EMISSIONS CONTROL PROGRAMS</b>	<b>19</b>
<b>7.0 UNIT SPECIFIC CONDITIONS FOR SPECIFIC EMISSION UNITS</b>	<b>20</b>
7.1 Group 1 Storage Tanks	
7.2 Group 2 Storage Tanks	
<b>8.0 GENERAL PERMIT CONDITIONS</b>	<b>35</b>
8.1 Permit Shield	
8.2 Applicability of Title IV Requirements	
8.3 Emissions Trading Programs	
8.4 Operational Flexibility/Anticipated Operating Scenarios	

	<u>Page</u>
8.5 Testing Procedures	
8.6 Reporting Requirements	
8.7 Title I Conditions	
<b>9.0 STANDARD PERMIT CONDITIONS</b>	40
9.1 Effect of Permit	
9.2 General Obligations of Permittee	
9.3 Obligation to Allow Illinois EPA Surveillance	
9.4 Obligation to Comply with Other Requirements	
9.5 Liability	
9.6 Recordkeeping	
9.7 Annual Emissions Report	
9.8 Requirements for Compliance Certification	
9.9 Certification	
9.10 Defense to Enforcement Actions	
9.11 Permanent Shutdown	
9.12 Reopening and Reissuing Permit for Cause	
9.13 Severability Clause	
9.14 Permit Expiration and Renewal	
9.15 General Authority for the Terms and Conditions of this Permit	
<b>10.0 ATTACHMENTS</b>	
1 Example Certification by a Responsible Official	1-1
2 Emissions of Particulate Matter from Process Emission Units	2-1
3 Compliance Assurance Monitoring (CAM) Plan	3-1
4 Guidance	4-1
5 Summary of Storage Tank Features and Groupings	5-1

## 1.0 INTRODUCTION

### 1.1 Source Identification

Shell Pipeline Company, LP - Patoka Terminal  
1643 Dickey Pond Road, Vernon, Illinois 62892  
618/432-5740

I.D. No.: 121810AAA  
County: Marion  
Standard Industrial Classification: 4612, Crude Petroleum Pipe Lines  
(Primary)

### 1.2 Owner/Parent Company

Capline System  
777 Walker Street, TSP 1580  
Houston, Texas 77002

### 1.3 Operator

Shell Pipeline Company, LP  
777 Walker Street, TSP 1586, Houston, Texas 77002

Tim Geiger, 618/432-5740

### 1.4 Source Description

The source is located two miles northeast of Patoka, in Patoka Township. The source is a breakout station for crude oil. Materials being transferred by pipe line may be temporarily stored at the source depending on the schedule of the pipe line for shipment of material to different destinations.. In addition, emission control equipment consists of:

- Floating roofs on "new" external floating roof storage tanks;
- Floating roofs with a shoe mounted primary seal on "existing" external floating roof storage tanks; and
- All external floating roof storage tanks also have a submerged loading pipe.

Note: This narrative description is for informational purposes only and is not enforceable.

## 2.0 LIST OF ABBREVIATIONS AND ACRONYMS COMMONLY USED

ACMA	Alternative Compliance Market Account
Act	Illinois Environmental Protection Act [415 ILCS 5/1 et seq.]
AP-42	Compilation of Air Pollutant Emission Factors, Volume 1, Stationary Point and Other Sources (and Supplements A through F), USEPA, Office of Air Quality Planning and Standards, Research Triangle Park, NC 27711
ATU	Allotment Trading Unit
BACT	Best Available Control Technology
BAT	Best Available Technology
CAA	Clean Air Act [42 U.S.C. Section 7401 et seq.]
CAAPP	Clean Air Act Permit Program
CAM	Compliance Assurance Monitoring
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
CO	Carbon Monoxide
ERMS	Emissions Reduction Market System
HAP	Hazardous Air Pollutant
IAC	Illinois Administrative Code
I.D. No.	Identification Number of Source, assigned by Illinois EPA
ILCS	Illinois Compiled Statutes
Illinois EPA	Illinois Environmental Protection Agency
LAER	Lowest Achievable Emission Rate
MACT	Maximum Achievable Control Technology
MSSCAM	Major Stationary Sources Construction and Modification (35 IAC 203, New Source Review for non-attainment areas)
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO <sub>x</sub>	Nitrogen Oxides
NSPS	New Source Performance Standards
PM	Particulate Matter
PM <sub>10</sub>	Particulate matter with an aerodynamic diameter less than or equal to a nominal 10 microns as measured by applicable test or monitoring methods
PM <sub>2.5</sub>	Particulate matter with an aerodynamic diameter less than or equal to a nominal 2.5 microns as measured by applicable test or monitoring methods
PSD	Prevention of Significant Deterioration (40 CFR 52.21, New Source Review for attainment areas)
RMP	Risk Management Plan
SO <sub>2</sub>	Sulfur Dioxide
T1	Title I - identifies Title I conditions that have been carried over from an existing permit
T1N	Title I New - identifies Title I conditions that are being established in this permit
T1R	Title I Revised - identifies Title I conditions that have been carried over from an existing permit and subsequently revised in this permit
USEPA	United States Environmental Protection Agency
VOM	Volatile Organic Material
VPL	Volatile Petroleum Liquid

### 3.0 CONDITIONS FOR INSIGNIFICANT ACTIVITIES

#### 3.1 Identification of Insignificant Activities

The following activities at the source constitute insignificant activities as specified in 35 IAC 201.210:

- 3.1.1 Activities determined by the Illinois EPA to be insignificant activities, pursuant to 35 IAC 201.210(a)(1) and 201.211, as follows:

None

- 3.1.2 Activities that are insignificant activities based upon maximum emissions, pursuant to 35 IAC 201.210(a)(2) or (a)(3), as follows:

None

- 3.1.3 Activities that are insignificant activities based upon their type or character, pursuant to 35 IAC 201.210(a)(4) through (18), as follows:

Emergency generators with power output less than 150 horsepower

- 3.1.4 Activities that are considered insignificant activities pursuant to 35 IAC 201.210(b). Note: These activities are not required to be individually listed.

#### 3.2 Compliance with Applicable Requirements

Insignificant activities are subject to applicable requirements notwithstanding status as insignificant activities. In particular, in addition to regulations of general applicability, such as 35 IAC 212.301 and 212.123 (Condition 5.3.2), the Permittee shall comply with the following requirements, as applicable:

- 3.2.1 For each particulate matter process emission unit, the Permittee shall comply with the applicable particulate matter emission limit of 35 IAC 212.321 or 212.322 (see Attachment 2) and 35 IAC Part 266. For example, the particulate matter emissions from a process emission unit shall not exceed 0.55 pounds per hour if the emission unit's process weight rate is 100 pounds per hour or less, pursuant to 35 IAC 266.110.

- 3.2.2 For each organic material emission unit that uses organic material, e.g., a mixer or printing line, the Permittee shall comply with the applicable VOM emission limit of 35 IAC 215.301, which requires that organic material emissions not exceed 8.0 pounds per hour or, if no odor nuisance exists, do not qualify as photochemically reactive material as defined in 35 IAC 211.4690.

3.2.3 For each open burning activity, the Permittee shall comply with 35 IAC Part 237, including the requirement to obtain a permit for open burning in accordance with 35 IAC 237.201, if necessary.

3.2.4 For each storage tank that has a storage capacity greater than 946 liters (250 gallons) and, if no odor nuisance exists, that stores an organic material with a vapor pressure exceeding 2.5 psia at 70°F, the Permittee shall comply with the applicable requirements of 35 IAC 215.122, which requires use of a permanent submerged loading pipe, submerged fill, or a vapor recovery system.

### 3.3 Addition of Insignificant Activities

3.3.1 The Permittee is not required to notify the Illinois EPA of additional insignificant activities present at the source of a type that is identified in Condition 3.1, until the renewal application for this permit is submitted, pursuant to 35 IAC 201.212(a).

3.3.2 The Permittee must notify the Illinois EPA of any proposed addition of a new insignificant activity of a type addressed by 35 IAC 201.210(a) and 201.211 other than those identified in Condition 3.1, pursuant to Section 39.5(12)(b) of the Act.

3.3.3 The Permittee is not required to notify the Illinois EPA of additional insignificant activities present at the source of a type identified in 35 IAC 201.210(b).

#### 4.0 SIGNIFICANT EMISSION UNITS AT THIS SOURCE

Emission Unit	Description	Date Constructed	Emission Control Equipment
Group 1 Storage Tanks (See Attachment 5 for details)	Existing external floating roof storage tanks that require a primary seal and do not require a rim mounted secondary seal because they are used to store crude oil	See Attachment 5	Floating roof with shoe mounted primary seal
Group 2 Storage Tanks (See Attachment 5 for details)	New external floating roof storage tanks (constructed after June 11, 1973 and prior to May 19, 1978)	See Attachment 5	Floating roof
Fugitive emissions	Piping, valves, and pumps used to transfer materials between the pipe line and storage tanks	See Attachment 5	None



## 5.0 OVERALL SOURCE CONDITIONS

### 5.1 Applicability of Clean Air Act Permit Program (CAAPP)

5.1.1 This permit is issued based on the source requiring a CAAPP permit as a major source of VOM emissions.

5.1.2 This permit is issued based on the source being a synthetic minor source of HAPs.

### 5.2 Area Designation

This permit is issued based on the source being located in an area that, as of the date of permit issuance, is designated attainment or unclassifiable for the National Ambient Air Quality Standards for all criteria pollutants (CO, lead, NO<sub>2</sub>, ozone, PM<sub>2.5</sub>, PM<sub>10</sub>, SO<sub>2</sub>).

### 5.3 Source-Wide Applicable Provisions and Regulations

5.3.1 Specific emission units at this source are subject to particular regulations as set forth in Section 7 (Unit-Specific Conditions for Specific Emission Units) of this permit.

5.3.2 In addition, emission units at this source are subject to the following regulations of general applicability:

- a. No person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally overhead at a point beyond the property line of the source unless the wind speed is greater than 40.2 kilometers per hour (25 miles per hour), pursuant to 35 IAC 212.301 and 212.314.
- b. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to the requirements of 35 IAC 212.122, except as allowed by 35 IAC 212.123(b) and 212.124.
- c. Pursuant to 35 IAC 215.142, no person shall cause or allow the discharge of more than 32.8 ml (2 cu in) of volatile organic liquid with vapor pressure of 17.24 kPa (2.5 psia) or greater at 294.3°K (70°F) into the atmosphere from any pump or compressor in any 15 minute period at standard conditions.

#### 5.3.3 Ozone Depleting Substances

The Permittee shall comply with the standards for recycling and emissions reduction of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:

- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
- b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

#### 5.3.4 Risk Management Plan (RMP)

Should this stationary source, as defined in 40 CFR 68.3, become subject to the federal regulations for Chemical Accident Prevention in 40 CFR Part 68, then the owner or operator shall submit the items below. This condition is imposed in this permit pursuant to 40 CFR 68.215(a)(2)(i) and (ii).

- a. A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR 68.10(a); or
- b. A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the RMP, as part of the annual compliance certification required by Condition 9.8.

#### 5.3.5 Future Emission Standards

- a. Should this stationary source become subject to a new or revised regulation under 40 CFR Parts 60, 61, 62, or 63, or 35 IAC Subtitle B after the date issued of this permit, then the owner or operator shall, in accordance with the applicable regulation(s), comply with the applicable requirements by the date(s) specified and shall certify compliance with the applicable requirements of such regulation(s) as part of the annual compliance certification, as required by Condition 9.8. This permit may also have to be revised or reopened to address such new or revised regulations (see Condition 9.12.2).
- b. This permit and the terms and conditions herein do not affect the Permittee's past and/or continuing obligation with respect to statutory or regulatory requirements governing major source construction or modification under Title I of the CAA. Further, neither the issuance of this permit nor any of the terms or conditions of the permit shall alter or affect the liability of the Permittee for any violation of applicable requirements prior to or at the time of permit issuance.

#### 5.3.6 Episode Action Plan

- a. Pursuant to 35 IAC 244.141, 244.142, and 244.143, the Permittee shall maintain at the source and have on file with the Illinois EPA a written episode action plan (plan) for reducing the levels of emissions during yellow alerts, red alerts, and emergencies, consistent with safe operating procedures. The plan shall contain the information specified in 35 IAC 244.144 and is incorporated by reference into this permit.
- b. The Permittee shall immediately implement the appropriate steps described in this plan should an air pollution alert or emergency be declared by the Director of the Illinois EPA or his or her designated representative.
- c. If an operational change occurs at the source which invalidates the plan, a revised plan shall be submitted to the Illinois EPA for review within 30 days of the change, pursuant to 35 IAC 244.143(d). Such plans shall be further revised if disapproved by the Illinois EPA.

#### 5.4 Source-Wide Non-Applicability of Regulations of Concern

- 5.4.1 This permit is issued based on the source not being subject to 40 CFR Part 63, Subpart R, National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations), because the source does not load, transport, or store gasoline, nor is it a major source of HAP emissions.
- 5.4.2 This permit is issued based on the source not being subject to 40 CFR Part 63, Subpart EEEE-National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline), because the Source is not a major source of HAP emissions.
- 5.4.3 This permit is issued based on the source not being subject to 35 IAC Part 218, Subpart Y, Gasoline Distribution, because the source does not load, transport, or store gasoline.
- 5.4.4 This permit is issued based on the source not being subject to 35 IAC 215.124(a): Because the external floating roof is of welded construction, is equipped with a metallic type shoe seal or a liquid-mounted foam seal, and the tank is only used to store crude oil.

#### 5.5 Source-Wide Control Requirements and Work Practices

In addition to the source-wide requirements in the Standard Permit Conditions in Section 9, the Permittee shall fulfill the following source-wide control requirements and/or work practice requirements:

5.5.1 The Permittee shall inspect pumps and compressors for leaks on at least a quarterly basis and determine if any leak is greater than 32.8 ml (2 cu in) in any 15 minute period at standard conditions. Pursuant to 35 IAC 215.142, if a leak of more than 32.8 ml (2 cu in) in any 15 minute period at standard conditions is detected by any means, including visual observation, smell or sound, the pump or compressor shall be repaired or taken out of service within 15 days.

## 5.6 Source-Wide Production and Emission Limitations

### 5.6.1 Permitted Emissions for Fees

The annual emissions from the source, not considering insignificant activities as addressed by Section 3.0 of this permit, shall not exceed the following limitations. The overall source emissions shall be determined by adding emissions from all emission units. Compliance with these limits shall be determined on a calendar year basis. These limitations (Condition 5.6.1) are set for the purpose of establishing fees and are not federally enforceable (see Section 39.5(18) of the Act).

#### Permitted Emissions of Regulated Pollutants

Pollutant	Tons/Year
Volatile Organic Material (VOM)	351.52
Sulfur Dioxide (SO <sub>2</sub> )	
Particulate Matter (PM)	
Nitrogen Oxides (NO <sub>x</sub> )	
HAP, not included in VOM or PM	
Total	351.52

### 5.6.2 Emissions of Hazardous Air Pollutants

Pursuant to Section 39.5(7)(a) of the Act, the emissions of HAPs from the source shall be less than 8 tons/year for each individual HAP and 20 tons/year for all HAPs combined. Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total). This condition is being imposed so that the source is not a major source of HAP emissions and the requirements of 40 CFR 63, Subpart EEEE National Emission Standards for Organic Liquids Distribution (non-gasoline) do not apply to the Source. The Permittee shall fulfill the applicable testing, recordkeeping, and reporting requirements of Conditions 5.7.2, 5.9.2, and 5.10.2.

### 5.6.3 Other Source-Wide Production and Emission Limitations

Other source-wide emission limitations are not set for this source pursuant to the federal rules for PSD, state rules for MSSCAM, or Section 502(b)(10) of the CAA.

## 5.7 Source-Wide Testing Requirements

5.7.1 Pursuant to 35 IAC 201.282 and Section 4(b) of the Act, every emission source or air pollution control equipment shall be subject to the following testing requirements for the purpose of determining the nature and quantities of specified air contaminant emissions and for the purpose of determining ground level and ambient air concentrations of such air contaminants:

- a. Testing by Owner or Operator: The Illinois EPA may require the owner or operator of the emission source or air pollution control equipment to conduct such tests in accordance with procedures adopted by the Illinois EPA, at such reasonable times as may be specified by the Illinois EPA and at the expense of the owner or operator of the emission source or air pollution control equipment. All such tests shall be made by or under the direction of a person qualified by training and/or experience in the field of air pollution testing. The Illinois EPA shall have the right to observe all aspects of such tests [35 IAC 201.282(a)].
- b. Testing by the Illinois EPA: The Illinois EPA shall have the right to conduct such tests at any time at its own expense. Upon request of the Illinois EPA, the owner or operator of the emission source or air pollution control equipment shall provide, without charge to the Illinois EPA, necessary holes in stacks or ducts and other safe and proper testing facilities, including scaffolding, but excluding instruments and sensing devices, as may be necessary [35 IAC 201.282(b)].
- c. Any such tests are also subject to the Testing Procedures of Condition 8.5 set forth in the General Permit Conditions of Section 8.

### 5.7.2 HAP Testing to Verify Minor Source Status

Pursuant to Condition 5.7.1 and to verify compliance with the requirements of Condition 5.6.2, that is that this source is not a major source of HAPs, the following testing requirements are established:

- a. If in the previous calendar year, emissions of HAPs exceeded 8 tons of a single HAP 20 tons of total HAPs, then testing for HAPs using USEPA Method 311 shall be conducted as follows:
- b. The calculation as to whether the limits in Section 5.6.2 were exceeded shall be based on records and procedures in Condition 5.9.2 and shall be completed by January 31 for the previous calendar year. If testing is required it shall be completed by March 15.

- c. Any such tests are also subject to the Testing Procedures of Condition 8.5 set forth in the General Permit Conditions of Section 8.

#### 5.8 Source-Wide Monitoring Requirements

Source-wide monitoring requirements are not set for this source.

#### 5.9 Source-Wide Recordkeeping Requirements

##### 5.9.1 Annual Emission Records

The Permittee shall maintain records of total annual emissions on a calendar year basis for the emission units covered by Section 7 (Unit Specific Conditions for Specific Emission Units) of this permit to demonstrate compliance with Condition 5.9.1, pursuant to Section 39.5(7)(b) of the Act.

##### 5.9.2 General Records for Storage Tanks

- a. The Permittee shall maintain a log identifying which unit-specific condition (Condition 7.1 or 7.2 of this permit) each tank is complying with, if different than shown in Attachment 1, with date and supporting explanation for change in applicable requirements, pursuant to Section 39.5(7)(1)(i)(A) of the Act.
- b. The Permittee shall maintain records of the following items for each storage tank at the source with a capacity of 40 m<sup>3</sup> (approximately 10,500 gallons) or greater [Section 39.5(7)(b) of the Act]. These records shall be kept up to date for each tank at the source and be retained until the tank is removed from the source.
  - i. The date\* on which construction of the tank was commenced, with a copy of supporting documentation;
  - ii. The date(s)\* on which modification or reconstruction, as defined in the NSPS, 40 CFR 60.14 and 60.15 respectively, were commenced on the tank, if applicable;
  - iii. A record of the types of VOL actually stored in the tank and anticipated to be stored in the tank, with date of each change in the list; and
  - iv. The dimensions of the tank and an analysis of capacity, if the tank was constructed, modified, or reconstructed after July 23, 1984. [40 CFR 60.116b(b)]

\* If a date is prior to June 11, 1973, a specific date is not needed and documentation need only show commencement of construction prior to this date.

#### 5.9.3 Records for Floating Roof Storage Tanks

Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the following items for each storage tank equipped with a floating roof to allow calculation of VOM emissions from the storage tanks at the source so as to demonstrate compliance with the annual emission limits in Condition 5.6. These records shall be updated whenever there is a change in status of a storage tank that is brought about by actions at the source, such as painting, and during periodic inspections.

- a. The color of each storage tank;
- b. The condition of each storage tank; and
- c. The type and number of fittings, or a statement that the default settings regarding type and number of fittings in the TANKS program are used for emission estimation.

#### 5.9.4 Records for VOM Emissions

Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the following items to quantify annual VOM and HAP emissions, so as to demonstrate compliance with the limits in Condition 5.6 and to verify that the source is not a major source of HAP emissions (therefore not subject to 40 CFR Part 63):

- a. The identification and properties of the worst-case organic liquid stored at the source, as related to emissions, i.e., vapor pressure and molecular weight;
- b. A current analysis of the tank or tanks in each group that would have the greatest emissions from storage of various liquids to the extent that the Permittee does not choose to keep throughput records by individual tank, to identify the tank that should be assumed for emission calculations.

#### 5.9.5 Records for Operating Scenarios

Pursuant to Section 39.5(7)(b) of the Act, if any storage tank identified in this permit as storing VPL changes to storage of materials with a vapor pressure of less than 0.5 psia at 70°F as provided for in Condition 5.11, the Permittee shall maintain a log identifying the liquid stored in the tank, the date such tank switched to the storage of this liquid, and if applicable, the date such tank returned to storage of VPL.

#### 5.9.6 Records for Pump Seal Leak Inspections

Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep the following records to document implementation of the leak detection and repair program required by Condition 5.5.

- a. Upon the presence of a leak, document date, description, and the means of identification of the leak;
- b. The date the leak was repaired, or the component taken out of service; and
- c. If a corrective action, as in Condition 5.5.1, was not taken within 15 days, an explanation why corrective action could not be taken in 15 days.

#### 5.9.7 Records for HAP Emissions

- a. The Permittee shall maintain records of individual and combined HAP emissions on a monthly and annual basis for the emission units covered by Section 7 (Unit Specific Conditions for Specific Emission Units) of this permit to demonstrate compliance with Condition 5.6.2, pursuant to Section 39.5(7)(b) of the Act.
- b. If testing is required by Condition 5.7.2, the Permittee shall keep records of the testing, including the test date, conditions, methodologies, calculations, test results, and any discrepancies between the test results and documentation of Condition 5.9.2(c) below.
- d. The Permittee shall keep a record of the applicability determination for 40 CFR 63, Subpart EEEE at the source for a period of five years after the determination. This determination shall include a detailed analysis that demonstrates why the Permittee believes the source is not subject to 40 CFR 63, Subpart EEEE [40 CFR 63.10(b)(3)].

#### 5.9.8 Retention and Availability of Records

- a. All records and logs required by this permit shall be retained for at least five years from the date of entry (unless a longer retention period is specified by the particular recordkeeping provision herein), shall be kept at a location at the source that is readily accessible to the Illinois EPA or USEPA, and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request.
- b. The Permittee shall retrieve and print, on paper during normal source office hours, any records retained in an electronic format (e.g., computer) in response to an Illinois EPA or USEPA request for records during the course of a source inspection.



## 5.10 Source-Wide Reporting Requirements

### 5.10.1 General Source-Wide Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Air Compliance Unit, of deviations of the source with the permit requirements within 30 days, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken. There are also reporting requirements for unit specific emission units set forth in Section 7 of this permit.

### 5.10.2 Annual Emissions Report

The annual emissions report required pursuant to Condition 9.7 shall contain emissions information, including HAP emissions, for the previous calendar year.

## 5.11 Source-Wide Operational Flexibility/Anticipated Operating Scenarios

Pursuant to Section 39.5(7)(l)(i) of the Act, the Permittee is authorized to make the following physical or operational changes without prior notification to the Illinois EPA or revision of this permit. This condition does not affect the Permittee's obligation to properly obtain a construction permit in a timely manner for any activity constituting construction or modification of the source, as defined in 35 IAC 201.102:

### Storage Tanks

- a. The Permittee is authorized to store materials with a vapor pressure less than 0.5 psia at 70°F, e.g., distillate fuel oils or blend stocks, diesel fuel, and jet kerosene, in any storage tank identified in this permit as a VPL storage tank. In such instances, the unit-specific permit conditions in Condition 7.0 of this permit applicable to such tank based on the storage of VPL shall no longer apply. This condition does not affect the Permittee's obligation to properly obtain a construction permit in a timely manner for any activity constituting construction or modification of an emission unit, as defined in 35 IAC 201.102:
- b. Upon resuming storage of VPL in such a tank, the applicable unit-specific conditions of Condition 7.0 of this permit shall again apply to such tank. In addition, prior to returning such a tank to storage of VPL, the Permittee shall conduct applicable inspection of the tank for storage of VPL.

## 5.12 Source-Wide Compliance Procedures

### 5.12.1 Procedures for Calculating Emissions

Except as provided in Condition 9.1.3, compliance with the source-wide emission limits specified in Condition 5.6 shall be

addressed by the recordkeeping and reporting requirements of Conditions 5.9 and 5.10, and compliance procedures in Section 7 (Unit Specific Conditions for Specific Emission Units) of this permit.

#### 5.12.2 Other Source-Wide Compliance Procedures

Compliance with Condition 5.3.2(c) shall be addressed by the Control Requirements and Work Practices of Condition 5.5.1, the Recordkeeping requirements of Condition 5.9.6, the Reporting requirements of Condition 5.10, and the compliance procedure of Condition 5.12.2(a).

- a. Use a stop watch and a suitable volume indicating container to collect discharge from the VOL leak for 15 minutes. If more than 32.8 ml (2 cu in) is collected in any 15 minute period, then the pump or compressor must be repaired within 15 days.

## **6.0 CONDITIONS FOR EMISSIONS CONTROL PROGRAMS**

This section is reserved for emissions control programs. As of the date of issuance of this permit, there are no such programs applicable to this source.

## 7.0 UNIT SPECIFIC CONDITIONS FOR SPECIFIC EMISSION UNITS

### 7.1 Group 1 Storage Tanks

#### 7.1.1 External floating roof storage tanks constructed before June 11, 1973.

##### Description

The Permittee operates external floating roof storage tanks that are not required to have a rim mounted secondary seal to store various crude oils. Permanent submerged loading must be used at these tanks, minimizing turbulence and evaporation of VOM during loading.

Note: This narrative description is for informational purposes only and is not enforceable.

#### 7.1.2 List of Emission Units and Air Pollution Control Equipment

Storage Tank	Description	Construction Date	Emission Control Equipment
700	External floating roof tank	Constructed before June 11, 1973 (See Attachment #5 for details)	Floating roof, shoe-mounted primary seal, and a permanent submerged loading pipe
701	External floating roof tank		Floating roof, shoe-mounted primary seal, and a permanent submerged loading pipe
702	External floating roof tank		Floating roof, shoe-mounted primary seal, and a permanent submerged loading pipe
703	External floating roof tank		Floating roof, shoe-mounted primary seal, and a permanent submerged loading pipe
704	External floating roof tank		Floating roof, shoe-mounted primary seal, and a permanent submerged loading pipe
712	External floating roof tank		Floating roof, shoe-mounted primary seal, and a permanent submerged loading pipe
714	External floating roof tank		Floating roof, shoe-mounted primary seal, and a permanent submerged loading pipe
715	External floating roof tank		Floating roof, shoe-mounted primary seal, and a permanent submerged loading pipe
716	External floating roof tank		Floating roof, shoe-mounted primary seal, and a permanent submerged loading pipe
717	External floating roof tank		Floating roof, shoe-mounted primary seal, and a permanent submerged loading pipe

Storage Tank	Description	Construction Date	Emission Control Equipment
707	External floating roof tank	Constructed before June 11, 1973	Floating roof, shoe-mounted primary seal, and a permanent submerged loading pipe
711	External floating roof tank	(See Attachment #5 for details)	Floating roof, shoe-mounted primary seal, and a permanent submerged loading pipe

### 7.1.3 Applicable Provisions and Regulations

- a. The "affected Group 1 Storage Tanks" for the purpose of these unit-specific conditions, are Storage Tanks described in Conditions 7.1.1 and 7.1.2. The status of all storage tanks at this source, including affected tanks that are subject to 35 IAC 215.123(b), is summarized in Attachment 5.
- b. An "affected tank," for the purpose of these unit-specific conditions, is a storage tank that is subject to 35 IAC 215.121, 215.122, and 215.123(b). Each storage tank with a capacity of 151.42 cubic meters (approx. 40,000 gallons) or more storing volatile petroleum liquid (VPL) is subject to the requirements of 35 IAC 215.123(b) unless it is specifically excluded pursuant to 35 IAC 215.123(a).
- c. Malfunction and Breakdown Provisions

Subject to the following terms and conditions, the Permittee is authorized to continue operation of an affected tank in violation of the applicable standards in Condition 7.1.3 in the event of a malfunction or breakdown of a floating roof, primary seal, or secondary seal of the affected tanks. This authorization is provided pursuant to 35 IAC 201.149, 201.161 and 201.262, as the Permittee has applied for such authorization in its application, generally explaining why such continued operation would be required to provide essential service or to prevent risk of injury to personnel or severe damage to equipment, and describing the measures that will be taken to minimize emissions from any malfunctions and breakdowns. This authorization supersedes the general prohibition in Condition 9.2.3 against continued operation in such circumstances.

- i. This authorization only allows such continued operation as necessary to provide essential service or prevent risk of injury to personnel or severe damage to equipment and does not extend to continued operation solely for the economic benefit of the Permittee.
- ii. Upon occurrence of excess emissions due to malfunction or breakdown, the Permittee shall as soon

as practical repair the damaged feature(s) of the storage tank or empty and remove the tank from VPL service as soon as practicable. This shall be accomplished within 45 days unless the feature(s) can not be repaired within 45 days and the storage tank can not be emptied and removed from VPL service within 45 days, and the Permittee obtains an extension, for up to 30 days, from the Illinois EPA. The request for such an extension must document that alternative storage capacity is unavailable and specify a schedule of actions the Permittee will take that will assure the feature(s) will be repaired or the storage tank emptied as soon as possible.

- iii. The Permittee shall fulfill the applicable recordkeeping and reporting requirements of Conditions 5.9, and 7.1.9, and 5.10, and 7.1.10. For these purposes, time shall be measured from the start of a particular incident. The absence of excess emissions for a short period shall not be considered to end the incident if excess emissions resume. In such circumstances, the incident shall be considered to continue until corrective actions are taken so that excess emissions cease or the Permittee takes the affected tank out of service.
- iv. Following notification to the Illinois EPA of a malfunction or breakdown with excess emissions, the Permittee shall comply with all reasonable directives of the Illinois EPA with respect to such incident, pursuant to 35 IAC 201.263.
- v. This authorization does not relieve the Permittee from the continuing obligation to minimize excess emissions during malfunction or breakdown. As provided by 35 IAC 201.265, an authorization in a permit for continued operation with excess emissions during malfunction and breakdown does not shield the Permittee from enforcement for any such violation and only constitutes a prima facie defense to such an enforcement action provided that the Permittee has fully complied with all terms and conditions connected with such authorization.

#### 7.1.4 Non-Applicability of Regulations of Concern

- a. This permit is issued based on affected tanks not being subject to the requirements of 35 IAC 215.124(a) because the exemption provisions, as follows, are satisfied. The exemption provisions that affected tanks are relying upon as of the "date issued" of this permit are listed in Condition 7.1.2.

- i. The external floating roof is of welded construction and equipped with a metallic type shoe-mounted secondary seal [35 IAC 215.124(b) (2)]. (Subgroup a)
- ii. The external floating roof is of welded construction and equipped with a metallic type shoe seal or a liquid-mounted foam seal, and the tank is only used to store petroleum liquid with a true vapor pressure less than 4.0 psia at 70°F [35 IAC 215.124(b) (3)]. (Subgroup b)
- iii. The only VPL the tank is used to store is crude oil [35 IAC 215.124(b) (4)]. (Subgroup c)
- b. The affected tanks are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because the affected tanks use a passive control measure, such as a seal, lid, or roof, that is not considered a control device because it acts to prevent the release of pollutants.

#### 7.1.5 Control Requirements and Work Practices

- a. Each affected tank shall be equipped with the following:
  - i. A floating roof which rests on the surface of the stored liquid and is equipped with a primary seal [35 IAC 215.121(b) (1)];
  - ii. All openings of the floating roof deck, other than drains, shall be closed at all times except when supported on the roof legs and be equipped with covers, lids, or seals. [35 IAC 215.123(b) (3)]
  - iii. A permanent submerged loading pipe. [35 IAC 215.122(b)]
- b. Each affected tank shall be operated so that the floating roof including the seal closure devices meet each of the following requirements:
  - i. There shall be no visible holes, tears, or other defects in the seal or any seal fabric or material of the floating roof (35 IAC 215.123(b) (2))
  - ii. The covers, lids or seals on openings of the floating roof deck other than stub drains shall be operated such that the following requirements are met:
    - A. The cover, lid or seal is in the closed position at all times except when petroleum liquid is transferred to or from the tank [35 IAC 215.123(b) (3) (A)];

- B. Automatic bleeder vents are closed at all times except when the roof is floated off or landed on the roof leg supports [35 IAC 215.123(b) (3) (B)]; and
  - C. Rim vents, if provided, are set to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. [35 IAC 215.123(b) (3) (C)]
- c. No person shall cause or allow the emissions of air contaminants into the atmosphere from any gauging or sampling devices attached to an affected tank, except during sampling or maintenance operations. [35 IAC 215.121(b) (1)]

#### 7.1.6 Production and Emission Limitations

Production and emission limitations are not set for the affected tanks. However, there are source-wide production and emission limitations set forth in Condition 5.6.

#### 7.1.7 Testing Requirements

Testing requirements are not set for the affected tanks. However, there are source-wide testing requirements in Condition 5.7 and general testing requirements in Condition 8.5.

#### 7.1.8 Monitoring Requirements

- a. The Permittee shall inspect each affected tank semiannually to insure compliance with the applicable control and operating requirements. [35 IAC 215.123(b) (4)]
- b. The Permittee shall perform a complete inspection of the cover and seal of each affected tank whenever the tank is degassed for any reasons other than the transfer of liquid during the normal operations of the tank, or whenever repairs are made as a result of any semiannual inspection or incidence of roof damage or defect. [35 IAC 215.123(b) (5)]

#### 7.1.9 Recordkeeping Requirements

In addition to the records required by Condition 5.9, the Permittee shall maintain records of the following items for each affected tank to demonstrate compliance with Conditions 5.6.1, and 7.1.5(d)and(e), pursuant to Section 39.5(7) (b) of the Act:

- a. Throughput records
- b. The Permittee shall maintain records to identify whenever an affected tank is emptied for any reason other than the transfer of liquid during normal operation or whenever



repairs are made as a result of regular inspections or incident of roof damage or defect to demonstrate compliance with Condition 7.1.5(e) (Cover and Seal Inspections) [35 IAC 215.123(b) (6)].

c. Results of Cover and Seal Inspections required by Condition 7.1.5(d) and/or (e), shall include:

- i. Type of inspection;
- ii. When the inspection and/or measurement was performed;
- iii. Who performed the inspection and/or measurement;
- iv. The method of inspection and/or measurement;
- v. The observed condition of each feature of the external floating roof (seals, roof deck and fittings) with raw data recorded during the inspection and/or measurement; and
- vi. Summary of compliance.

d. Records for Malfunctions and Breakdowns of Storage Tanks

The Permittee shall maintain records, pursuant to 35 IAC 201.263, of continued operation of an affected storage tank subject to Condition 7.1.3(c) during malfunctions and/or breakdown of the control features of the tank, which as a minimum, shall include:

- i. Occurrence date, duration and date of correction action of malfunction or breakdown;
- ii. A detailed explanation of the malfunction or breakdown;
- iii. An explanation why the damaged feature(s) could not be immediately repaired or the tank emptied and removed from service without risk of injury to personnel or severe damage to equipment;
- iv. The measures used to reduce the quantity of emissions and the duration of the event;
- v. The steps taken to prevent similar malfunctions or breakdowns or reduce their frequency and severity; and
- vi. The amount of release above typical emissions during malfunction/breakdown.

- e. The Permittee shall maintain records of the following items to demonstrate that affected tanks are not subject to 35 IAC 215.124. [Section 39.5(7)(b) of the Act]
  - i. For each affected tank in Subgroup a, as addressed by Condition 7.1.4(a)(i):
    - A. Design information for each tank showing welded roof construction and a metallic type shoe-mounted secondary seal; and
    - B. Maintenance and repair records for each tank as related to these features.
  - ii. For each affected tank in Subgroup b, as addressed by Condition 7.1.4(a)(ii):
    - A. Design information for each tank showing welded roof construction and a metallic type shoe seal, a liquid-mounted foam seal, or a liquid mounted liquid filled type seal;
    - B. Maintenance and repair records for each tanks as related to these features; and
    - C. Records of the liquids stored in each tank and its true vapor pressure at 70°F.
  - iii. For each affected tank in Subgroup c, as addressed by Condition 7.1.4(c), records showing that the only VPL stored in each tank is crude oil.
- f. If any storage tank identified in this permit as belonging to a particular Subgroup is changed in such a manner so that it will belong to a different Subgroup as provided in Condition 7.1.11(c) or (d), the Permittee shall maintain a log identifying which Subgroup such tank is operating pursuant to, including the date such tank switched to a different Subgroup.

#### 7.1.10 Reporting Requirements

##### a. Reporting of Deviations

The Permittee shall promptly notify the Illinois EPA, Air Compliance Unit, of deviations of the affected tank with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken:

- i. Emissions of volatile organic liquid from the affected tank in excess of the limits specified in Condition 7.1.3c within 30 days of such occurrence.

- ii. Any storage of VPL in the affected tank that is not in compliance with the control requirements due to absence of the features required by Condition 7.1.5, (e.g., "no rim-mounted secondary seal"), within five (5) days of becoming aware of the non-compliance status. This notification shall include a description of the event, the cause for the non-compliance, actions taken to correct the non-compliance, and the steps to be taken to avoid future non-compliance;
- iii. Any storage of VPL in the affected tank that is not in compliance with the control requirements (Condition 7.1.5) due to damage, deterioration, or other condition of the tank, within 30 days of becoming aware of the non-compliance status. This notification shall include a description of the event, the cause for the non-compliance, actions taken to correct the non-compliance, and the steps to be taken to avoid future non-compliance; and
- iv. The secondary seal gap area, calculated in accordance with Condition 7.1.9(e), in excess of the operating requirements specified in Condition 7.1.7(a) (ii), within 60 days of the date of measurements.

b. Reporting of Malfunctions and Breakdowns

The Permittee shall provide the following notification and reports to the Illinois EPA, Air Compliance Unit and Regional Field Office, pursuant to 35 IAC 201.263, concerning continued operation of an affected tank subject to Condition 7.1.3(c) during malfunction or breakdown:

- i. A. The Permittee shall notify the Illinois EPA's regional office by telephone as soon as possible during normal working hours, but no later than three (3) days, upon the occurrence of noncompliance due to malfunction or breakdown.
- B. Upon achievement of compliance, the Permittee shall give a written follow-up notice within 15 days to the Illinois EPA, Air Compliance Unit and Regional Field Office, providing a detailed explanation of the event, an explanation why continued operation of the affected tank was necessary, the length of time during which operation continued under such conditions, the measures taken by the Permittee to minimize and correct deficiencies with chronology, and when the repairs were completed or when the affected tank was taken out of service.

- C. If compliance is not achieved within 5 working days of the occurrence, the Permittee shall submit interim status reports to the Illinois EPA, Air Compliance Unit and Regional Field Office, within 5 days of the occurrence and every 14 days thereafter, until compliance is achieved. These interim reports shall provide a brief explanation of the nature of the malfunction or breakdown, corrective actions accomplished to date, actions anticipated to occur with schedule, and the expected date on which repairs will be complete or the affected tank will be taken out of service.
- ii. In accordance with the due dates in Condition 8.6.1, the Permittee shall submit semi-annual malfunction and breakdown reports to the Illinois EPA pursuant to Sections 39.5(7)(a) and (f) of the Act. These reports may be submitted along with other semi-annual reports and shall include the following information for malfunctions and breakdowns of the affected tank during the reporting period:
  - A. A listing of malfunctions and breakdowns, in chronological order, that includes:
    - I. The date, time, and duration of each incident.
    - II. The identity of the affected operation(s) involved in the incident.
  - B. Dates of the notices and reports of Conditions 7.1.10(b)(i).
  - C. Any supplement information the Permittee wishes to provide to the notices and reports of Conditions 7.1.10(b)(i).
  - D. The aggregate duration of all incidents during the quarter.
  - E. If there have been no such incidents during the calendar quarter, this shall be stated in the report.

#### 7.1.11 Operational Flexibility/Anticipated Operating Scenarios

The Permittee is authorized to make the following physical or operational change with respect to an affected tank without prior notification to the Illinois EPA or revision of this permit. This condition does not affect the Permittee's obligation to properly obtain a construction permit in a timely

manner for any activity constituting construction or modification of the source, as defined in 35 IAC 201.102:

- a. Changes in the material stored in a tank, provided the tank continues to comply with the requirements in Condition 7.1 of this permit.
- b. Changes accounted for in Condition 5.8.

7.1.12 Compliance Procedures

- a. Compliance with Condition 7.1.3(c) is addressed by the requirements of Condition 7.1.5 and the records required in Condition 7.1.9(c).
- b. For the purpose of estimating VOM emissions from each affected tank, the most recent USEPA TANKS program or the methodology in AP-42 for Liquid Storage Tank emissions shall be used.

## 7.2 Group 2 Storage Tanks

### 7.2.1 Description

External floating roof storage tanks constructed after June 11, 1973 and prior to May 19, 1978.

Note: This narrative description is for informational purposes only and is not enforceable.

### 7.2.2 List of Emission Units and Air Pollution Control Equipment

Storage Tank	Description	Construction Date	Emission Control Equipment
710	External floating roof tank	Constructed on or after June 11, 1973 (See attachment #5 for details)	Floating roof, shoe-mounted primary seal, and a permanent submerged loading pipe
713	External floating roof tank		Floating roof, shoe-mounted primary seal, and a permanent submerged loading pipe
718	External floating roof tank		Floating roof, shoe-mounted primary seal, and a permanent submerged loading pipe
719	External floating roof tank		Floating roof, shoe-mounted primary seal, and a permanent submerged loading pipe
720	External floating roof tank		Floating roof, shoe-mounted primary seal, and a permanent submerged loading pipe
722	External floating roof tank		Floating roof, liquid-mounted primary seal, and a permanent submerged loading pipe
706	External floating roof tank		Floating roof, shoe-mounted primary seal, and a permanent submerged loading pipe
708	External floating roof tank		Floating roof, shoe-mounted primary seal, and a permanent submerged loading pipe
709	External floating roof tank		Floating roof, shoe-mounted primary seal, and a permanent submerged loading pipe

### 7.2.3 Applicable Provisions and Regulations

- a. The "affected tank" for the purpose of these unit-specific conditions, are emission units described in Conditions 7.2.1 and 7.2.2.

As of the "date issued" as shown on page 1 of this permit, the affected tanks are identified in Condition 7.2.2. The status of all storage tanks at this source is summarized in Attachment 5.

b. 40 CFR 60 Subpart K

For each affected tank, the owner or operator shall install, operate and maintain a floating roof as defined in 40 CFR 60.111 pursuant to 40 CFR 60.112 which states that:

- i. The owner or operator of any storage vessel to which this subpart applies shall store petroleum liquids as follows:

If the true vapor pressure of the petroleum liquid, as stored, is equal to or greater than 78 mm Hg (1.5 psia) but not greater than 570 mm Hg (11.1 psia), the storage vessel shall be equipped with a floating roof, a vapor recovery system, or their equivalents.

c. 35.IAC 215.121

Pursuant to 35 IAC 215.121, No person shall cause or allow the storage of any volatile organic liquid with a vapor pressure of 17.24 kPa (2.5 psia) or greater at 294.3°K (70°F) or any gaseous organic material in any stationary tank, reservoir or other container of more than 151 cubic meters (40,000 gal) capacity unless such tank, reservoir or other container:

- i. Is a pressure tank capable of withstanding the vapor pressure of such liquid or the pressure of the gas, so as to prevent vapor or gas loss to the atmosphere at all times; or,

- ii. Is designed and equipped with one of the following vapor loss control devices:

- A. a floating roof which rests on the surface of the volatile organic liquid and is equipped with a closure seal or seals between the roof edge and the tank wall. Such floating roof shall not be permitted if the volatile organic liquid has a vapor pressure of 86.19 kPa (12.5 psia) or greater at 294.3°K (70°F). No person shall cause or allow the emission of air contaminants into the atmosphere from any gauging or sampling devices attached to such tanks, except during sampling or maintenance operations.

- B. A vapor recovery system consisting of:

- 1. A vapor gathering system capable of collecting 85% or more of the uncontrolled volatile organic material

that would be otherwise emitted to the atmosphere; and,

2. A vapor disposal system capable of processing such volatile organic material so as to prevent its emission to the atmosphere. No person shall cause or allow the emission of air contaminants into the atmosphere from any gauging or sampling devices attached to such tank, reservoir or other container except during sampling.
- d. Streamlining provisions of 40 CFR 60 Subpart K and 35 IAC 215.121

The Source has requested and the Illinois EPA has approved streamlining this permit by allowing compliance with 35 IAC 215.121 to be demonstrated by compliance with 40 CFR Subpart K. The Source has satisfactorily demonstrated through the application that the requirements of 40 CFR Subpart K in Condition 7.2.3(b) are equivalent to or more stringent than the requirements in 35 IAC 215.121.

#### 7.2.4 Non-Applicability of Regulations of Concern

- a. The affected tanks are not subject to the requirements of 35 IAC 215.123(b) because the requirements of 35 IAC 215.123(b) have been subsumed into the requirements of 40 CFR 60 Subpart K as per Condition 7.2.3(d).
- b. The affected tanks are not subject to the requirements of 35 IAC 215.124(a) because the affected tanks are subject to 40 CFR 60 Subpart K as per Condition 7.2.3(d).
- c. The affected tanks are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because the affected tanks use a passive control measure, such as a seal, lid, or roof, that is not considered a control device because it acts to prevent the release of pollutants.

#### 7.2.5 Control Requirements and Work Practices

- a. Each affected tank shall comply with the requirements of 40 CFR 60.112, which requires the use of an external floating roof if the true vapor pressure of the petroleum liquid, as stored, is equal to or greater than 78 mm Hg (1.5 psia) but not greater than 570 mm Hg (11.1 psia).
- b. Each affected tank shall also be equipped with a permanent submerged loading pipe, pursuant to 35 IAC 215.122(b).



7.2.6 Production and Emission Limitations

Production and emission limitations are not set for the affected tanks. However, there are source-wide production and emission limitations set forth in Condition 5.6.

7.2.7 Testing Requirements

Testing requirements are not set for the affected tanks. However, there are source-wide testing requirements in Condition 5.7 and general testing requirements in Condition 8.5.

7.2.8 Monitoring Requirements

Monitoring requirements are not set for the affected tanks

7.2.9 Recordkeeping Requirements

In addition to the records required by Condition 5.9, the Permittee shall maintain records of the following items for each affected tank to demonstrate compliance with Conditions 5.6.1 and 7.2.3(b), pursuant to Section 39.5(7)(b) of the Act:

- a. The Permittee shall keep the operating records required by 40 CFR 60.113(a) for each affected tank, as follows:

Records of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. [40 CFR 60.113(a)]

7.2.10 Reporting Requirements

- a. Reporting of Deviations

The Permittee shall promptly notify the Illinois EPA, Air Compliance Unit, of deviations of an affected tank with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken:

- i. Any storage of VOL in an affected tank that is not in compliance with the control requirements due to absence of the features required by Condition 7.2.5, e.g., no "floating roof," within five days of becoming aware of the non-compliance status. This notification shall include a description of the event, the cause for the non-compliance, actions taken to correct the non-compliance, and the steps taken to avoid future non-compliance.
- ii. Any storage of VOL in an affected tank that is out of compliance with the control requirements (Condition 7.2.5) due to damage, deterioration, or other

condition of the tank, within 30 days of becoming aware of the non-compliance status. This notification shall include a description of the event, the cause for the non-compliance, actions taken to correct the non-compliance, and the steps to be taken to avoid future non-compliance.

7.2.11 Operational Flexibility/Anticipated Operating Scenarios

The Permittee is authorized to make the following physical or operational change with respect to the affected tanks without prior notification to the Illinois EPA or revision of this permit. This condition does not affect the Permittee's obligation to properly obtain a construction permit in a timely manner for any activity constituting construction or modification of the source, as defined in 35 IAC 201.102:

- a. Changes in the material stored in a tank, provided the tank continues to comply with the specifications in Condition 7.2 of this permit.
- b. Changes accounted for in Condition 5.8.

7.2.12 Compliance Procedures

- a. Compliance with Condition 7.2.3(b) is addressed by the requirements of Condition 7.2.5 and the records required in Condition 7.2.9(a).
- b. For the purpose of estimating VOM emissions from each affected tank, the most recent USEPA TANKS program or the methodology in AP-42 for Liquid Storage Tank emissions shall be used.

## 8.0 GENERAL PERMIT CONDITIONS

### 8.1 Permit Shield

Pursuant to Section 39.5(7)(j) of the Act, the Permittee has requested and has been granted a permit shield. This permit shield provides that compliance with the conditions of this permit shall be deemed compliance with applicable requirements which were applicable as of the date the proposed permit for this source was issued, provided that either the applicable requirements are specifically identified within this permit, or the Illinois EPA, in acting on this permit application, has determined that other requirements specifically identified are not applicable to this source and this determination (or a concise summary thereof) is included in this permit.

This permit shield does not extend to applicable requirements which are promulgated after \_\_\_\_\_ **Error! Bookmark not defined.** (the date of issuance of the proposed permit) unless this permit has been modified to reflect such new requirements.

### 8.2 Applicability of Title IV Requirements (Acid Deposition Control)

This source is not an affected source under Title IV of the CAA and is not subject to requirements pursuant to Title IV of the CAA.

### 8.3 Emissions Trading Programs

No permit revision shall be required for increases in emissions allowed under any USEPA approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for elsewhere in this permit and that are authorized by the applicable requirement [Section 39.5(7)(o)(vii) of the Act].

### 8.4 Operational Flexibility/Anticipated Operating Scenarios

#### 8.4.1 Changes Specifically Addressed by Permit

Physical or operational changes specifically addressed by the Conditions of this permit that have been identified as not requiring Illinois EPA notification may be implemented without prior notice to the Illinois EPA.

#### 8.4.2 Changes Requiring Prior Notification

The Permittee is authorized to make physical or operational changes that contravene express permit terms without applying for or obtaining an amendment to this permit, provided that [Section 39.5(12)(a)(i) of the Act]:

- a. The changes do not violate applicable requirements;
- b. The changes do not contravene federally enforceable permit terms or conditions that are monitoring (including test

methods), recordkeeping, reporting, or compliance certification requirements;

- c. The changes do not constitute a modification under Title I of the CAA;
- d. Emissions will not exceed the emissions allowed under this permit following implementation of the physical or operational change; and
- e. The Permittee provides written notice to the Illinois EPA, Division of Air Pollution Control, Permit Section, at least 7 days before commencement of the change. This notice shall:
  - i. Describe the physical or operational change;
  - ii. Identify the schedule for implementing the physical or operational change;
  - iii. Provide a statement of whether or not any New Source Performance Standard (NSPS) is applicable to the physical or operational change and the reason why the NSPS does or does not apply;
  - iv. Provide emission calculations which demonstrate that the physical or operational change will not result in a modification; and
  - v. Provide a certification that the physical or operational change will not result in emissions greater than authorized under the Conditions of this permit.

## 8.5 Testing Procedures

Tests conducted to measure composition of materials, efficiency of pollution control devices, emissions from process or control equipment, or other parameters shall be conducted using standard test methods if applicable test methods are not specified by the applicable regulations or otherwise identified in the conditions of this permit.

Documentation of the test date, conditions, methodologies, calculations, and test results shall be retained pursuant to the recordkeeping procedures of this permit. Reports of any tests conducted as required by this permit or as the result of a request by the Illinois EPA shall be submitted as specified in Conditions 8.6.3 and 8.6.4.

## 8.6 Reporting Requirements

### 8.6.1 Monitoring Reports

Reports summarizing required monitoring as specified in the conditions of this permit shall be submitted to the Illinois EPA

every six months as follows, unless more frequent submittal of such reports is required in Sections 5 or 7 of this permit [Section 39.5(7) (f) of the Act]:

<u>Monitoring Period</u>	<u>Report Due Date</u>
January - June	September 1
July - December	March 1

All instances of deviations from permit requirements must be clearly identified in such reports. All such reports shall be certified in accordance with Condition 9.9.

#### 8.6.2 Test Notifications

Unless otherwise specified elsewhere in this permit, a written test plan for any test required by this permit shall be submitted to the Illinois EPA for review at least 60 days prior to the testing pursuant to Section 39.5(7) (a) of the Act. The notification shall include at a minimum:

- a. The name and identification of the affected unit(s);
- b. The person(s) who will be performing sampling and analysis and their experience with similar tests;
- c. The specific conditions under which testing will be performed, including a discussion of why these conditions will be representative of maximum emissions and the means by which the operating parameters for the source and any control equipment will be determined;
- d. The specific determinations of emissions and operation that are intended to be made, including sampling and monitoring locations;
- e. The test method(s) that will be used, with the specific analysis method, if the method can be used with different analysis methods;
- f. Any minor changes in standard methodology proposed to accommodate the specific circumstances of testing, with justification; and
- g. Any proposed use of an alternative test method, with detailed justification.

#### 8.6.3 Test Reports

Unless otherwise specified elsewhere in this permit, the results of any test required by this permit shall be submitted to the Illinois EPA within 60 days of completion of the testing. The

test report shall include at a minimum [Section 39.5(7)(e)(i) of the Act]:

- a. The name and identification of the affected unit(s);
- b. The date and time of the sampling or measurements;
- c. The date any analyses were performed;
- d. The name of the company that performed the tests and/or analyses;
- e. The test and analytical methodologies used;
- f. The results of the tests including raw data, and/or analyses including sample calculations;
- g. The operating conditions at the time of the sampling or measurements; and
- h. The name of any relevant observers present including the testing company's representatives, any Illinois EPA or USEPA representatives, and the representatives of the source.

#### 8.6.4 Reporting Addresses

- a. Unless otherwise specified in the particular provision of this permit or in the written instructions distributed by the Illinois EPA for particular reports, reports and notifications shall be sent to the Illinois EPA - Air Compliance Unit with a copy sent to the Illinois EPA - Air Regional Field Office.
- b. As of the date of issuance of this permit, the addresses of the offices that should generally be utilized for the submittal of reports and notifications are as follows:

- i. Illinois EPA - Air Compliance Unit

Illinois Environmental Protection Agency  
Bureau of Air  
Compliance & Enforcement Section (MC 40)  
P.O. Box 19276  
Springfield, Illinois 62794-9276

- ii. Illinois EPA - Air Quality Planning Section

Illinois Environmental Protection Agency  
Bureau of Air  
Air Quality Planning Section (MC 39)  
P.O. Box 19276  
Springfield, Illinois 62794-9276

iii. Illinois EPA - Air Regional Field Office

Illinois Environmental Protection Agency  
Division of Air Pollution Control  
2009 Mall Street  
Collinsville, Illinois 62234

iv. USEPA Region 5 - Air Branch

USEPA (AR - 17J)  
Air & Radiation Division  
77 West Jackson Boulevard  
Chicago, Illinois 60604

- c. Permit applications should be addressed to the Air Permit Section. As of the date of issuance of this permit, the address of the Air Permit Section is as follows:

Illinois Environmental Protection Agency  
Division of Air Pollution Control  
Permit Section (MC 11)  
P.O. Box 19506  
Springfield, Illinois 62794-9506

8.7 Title I Conditions

Notwithstanding the expiration date on the first page of this CAAPP permit, any Title I conditions that would be included in this permit in the future, which would be identified by a T1, T1N, or T1R designation, would remain in effect until such time as the Illinois EPA takes action to revise or terminate them in accordance with applicable procedures for action on Title I conditions. This is because these conditions would either: (a) incorporate conditions of earlier permits that were issued by the Illinois EPA pursuant to authority that includes authority found in Title I of the CAA (T1 conditions), (b) be newly established in this CAAPP permit pursuant to authority that includes such Title I authority (T1N conditions), or (c) reflect a revision or combination of conditions established in this CAAPP permit (T1R conditions). (See also Condition 1.5.)

## 9.0 STANDARD PERMIT CONDITIONS

### 9.1 Effect of Permit

9.1.1 The issuance of this permit does not release the Permittee from compliance with State and Federal regulations which are part of the Illinois State Implementation Plan, as well as with other applicable statutes and regulations of the United States or the State of Illinois or applicable ordinances, except as specifically stated in this permit and as allowed by law and rule.

9.1.2 In particular, this permit does not alter or affect the following [Section 39.5(7)(j)(iv) of the Act]:

- a. The provisions of Section 303 (emergency powers) of the CAA, including USEPA's authority under that Section;
- b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
- c. The applicable requirements of the acid rain program consistent with Section 408(a) of the CAA; and
- d. The ability of USEPA to obtain information from a source pursuant to Section 114 (inspections, monitoring, and entry) of the CAA.

9.1.3 Notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, pursuant to Section 39.5(7)(j) and (p) of the Act, any person (including the Permittee) may also use other credible evidence to establish compliance or noncompliance with applicable requirements.

### 9.2 General Obligations of Permittee

#### 9.2.1 Duty to Comply

The Permittee must comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the CAA and the Act, and is grounds for any or all of the following: enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application [Section 39.5(7)(o)(i) of the Act].

The Permittee shall meet applicable requirements that become effective during the permit term in a timely manner unless an alternate schedule for compliance with the applicable requirement is established.



#### 9.2.2 Duty to Maintain Equipment

The Permittee shall maintain all equipment covered under this permit in such a manner that the performance or operation of such equipment shall not cause a violation of applicable requirements.

#### 9.2.3 Duty to Cease Operation

No person shall cause, threaten or allow the continued operation of any emission unit during malfunction or breakdown of the emission unit or related air pollution control equipment if such operation would cause a violation of an applicable emission standard, regulatory requirement, ambient air quality standard or permit limitation unless this permit provides for such continued operation consistent with the Act and applicable Illinois Pollution Control Board regulations [Section 39.5(6)(c) of the Act].

#### 9.2.4 Disposal Operations

The source shall be operated in such a manner that the disposal of air contaminants collected by the equipment operations, or activities shall not cause a violation of the Act or regulations promulgated there under.

#### 9.2.5 Duty to Pay Fees

The Permittee must pay fees to the Illinois EPA consistent with the fee schedule approved pursuant to Section 39.5(18) of the Act, and submit any information relevant thereto [Section 39.5(7)(o)(vi) of the Act]. The check should be payable to "Treasurer, State of Illinois" and sent to: Fiscal Services Section, Illinois Environmental Protection Agency, P.O. Box 19276, Springfield, Illinois 62794-9276.

### 9.3 Obligation to Allow Illinois EPA Surveillance

Upon presentation of proper credentials and other documents as may be required by law and in accordance with constitutional limitations, the Permittee shall allow the Illinois EPA, or an authorized representative to perform the following [Sections 4 and 39.5(7)(a) and (p)(ii) of the Act]:

- a. Enter upon the Permittee's premises where an actual or potential emission unit is located; where any regulated equipment, operation, or activity is located or where records must be kept under the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c. Inspect during hours of operation any sources, equipment (including monitoring and air pollution control equipment),

practices, or operations regulated or required under this permit;

- d. Sample or monitor any substances or parameters at any location:
  - i. At reasonable times, for the purposes of assuring permit compliance or applicable requirements; or
  - ii. As otherwise authorized by the CAA, or the Act.
- e. Obtain and remove samples of any discharge or emission of pollutants authorized by this permit; and
- f. Enter and utilize any photographic, recording, testing, monitoring, or other equipment for the purposes of preserving, testing, monitoring, or recording any regulated activity, discharge or emission at the source authorized by this permit.

#### 9.4 Obligation to Comply with Other Requirements

The issuance of this permit does not release the Permittee from applicable State and Federal laws and regulations, and applicable local ordinances addressing subjects other than air pollution control.

#### 9.5 Liability

##### 9.5.1 Title

This permit shall not be considered as in any manner affecting the title of the premises upon which the permitted source is located.

##### 9.5.2 Liability of Permittee

This permit does not release the Permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the sources.

##### 9.5.3 Structural Stability

This permit does not take into consideration or attest to the structural stability of any unit or part of the source.

##### 9.5.4 Illinois EPA Liability

This permit in no manner implies or suggests that the Illinois EPA (or its officers, agents or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the source.

##### 9.5.5 Property Rights

This permit does not convey any property rights of any sort, or any exclusive privilege [Section 39.5(7)(o)(iv) of the Act].

## 9.6 Recordkeeping

### 9.6.1 Control Equipment Maintenance Records

A maintenance record shall be kept on the premises for each item of air pollution control equipment. At a minimum, this record shall show the dates of performance and nature of preventative maintenance activities.

### 9.6.2 Records of Changes in Operation

A record shall be kept describing changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under this permit, and the emissions resulting from those changes [Section 39.5(12)(b)(iv) of the Act].

### 9.6.3 Retention of Records

- a. Records of all monitoring data and support information shall be retained for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit [Section 39.5(7)(e)(ii) of the Act].
- b. Other records required by this permit including any logs, plans, procedures, or instructions required to be kept by this permit shall be retained for a period of at least 5 years from the date of entry unless a longer period is specified by a particular permit provision.

## 9.7 Annual Emissions Report

The Permittee shall submit an annual emissions report to the Illinois EPA, Air Quality Planning Section no later than May 1 of the following year, as required by 35 IAC Part 254.

## 9.8 Requirements for Compliance Certification

Pursuant to Section 39.5(7)(p)(v) of the Act, the Permittee shall submit annual compliance certifications. The compliance certifications shall be submitted no later than May 1 or more frequently as specified in the applicable requirements or by permit condition. The compliance certifications shall be submitted to the Air Compliance Unit, Air Regional Field Office, and USEPA Region 5 - Air Branch. The addresses for the submittal of the compliance certifications are provided in Condition 8.6.4 of this permit.

- a. The certification shall include the identification of each term or condition of this permit that is the basis of the

certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, both currently and over the reporting period consistent with the conditions of this permit.

- b. All compliance certifications shall be submitted to USEPA Region 5 in Chicago as well as to the Illinois EPA.
- c. All compliance reports required to be submitted shall include a certification in accordance with Condition 9.9.

#### 9.9 Certification

Any document (including reports) required to be submitted by this permit shall contain a certification by a responsible official of the Permittee that meets the requirements of Section 39.5(5) of the Act and applicable regulations [Section 39.5(7)(p)(i) of the Act]. An example Certification by a Responsible Official is included as Attachment 1 to this permit.

#### 9.10 Defense to Enforcement Actions

##### 9.10.1 Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit [Section 39.5(7)(o)(ii) of the Act].

##### 9.10.2 Emergency Provision

- a. An emergency shall be an affirmative defense to an action brought for noncompliance with the technology-based emission limitations under this permit if the following conditions are met through properly signed, contemporaneous operating logs, or other relevant evidence [Section 39.5(7)(k) of the Act]:

- i. An emergency occurred as provided in Section 39.5(7)(k) of the Act and the Permittee can identify the cause(s) of the emergency.

Note: For this purpose, emergency means a situation arising from sudden and reasonably unforeseeable events beyond the control of the source, as further defined by Section 39.5(7)(k)(iv) of the Act.

- ii. The permitted source was at the time being properly operated;
    - iii. The Permittee submitted notice of the emergency to the Illinois EPA within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a detailed

description of the emergency, any steps taken to mitigate emissions, and corrective actions taken; and

- iv. During the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission limitations, standards, or regulations in this permit.
- b. This provision is in addition to any emergency or upset provision contained in any applicable requirement. This provision does not relieve a Permittee of any reporting obligations under existing federal or state laws or regulations [Section 39.5(7)(k)(iv) of the Act].

#### 9.11 Permanent Shutdown

This permit only covers emission units and control equipment while physically present at the indicated source location(s). Unless this permit specifically provides for equipment relocation, this permit is void for the operation or activity of any item of equipment on the date it is removed from the permitted location(s) or permanently shut down. This permit expires if all equipment is removed from the permitted location(s), notwithstanding the expiration date specified on this permit.

#### 9.12 Reopening and Reissuing Permit for Cause

##### 9.12.1 Permit Actions

This permit may be modified, revoked, reopened and reissued, or terminated for cause in accordance with applicable provisions of Section 39.5 of the Act. The filing of a request by the Permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition [Section 39.5(7)(o)(iii) of the Act].

##### 9.12.2 Reopening and Revision

This permit must be reopened and revised if any of the following occur [Section 39.5(15)(a) of the Act]:

- a. Additional requirements become applicable to the equipment covered by this permit and three or more years remain before expiration of this permit.
- b. Additional requirements become applicable to an affected source for acid deposition under the acid rain program.
- c. The Illinois EPA or USEPA determines that this permit contains a material mistake or that inaccurate statement were made in establishing the emission standards or limitations, or other terms or conditions of this permit.

- d. The Illinois EPA or USEPA determines that this permit must be revised or revoked to ensure compliance with the applicable requirements.

#### 9.12.3 Inaccurate Application

The Illinois EPA has issued this permit based upon the information submitted by the Permittee in the permit application. Any misinformation, false statement or misrepresentation in the application shall be grounds for revocation and reissuance under Section 39.5(15) of the Act, pursuant to Sections 39.5(5) (e) and (i) of the Act.

#### 9.12.4 Duty to Provide Information

The Permittee shall furnish to the Illinois EPA, within a reasonable time specified by the Illinois EPA any information that the Illinois EPA may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to the Illinois EPA copies of records required to be kept by this permit, or for information claimed to be confidential, the Permittee may furnish such records directly to USEPA along with a claim of confidentiality [Section 39.5(7) (o) (v) of the Act].

### 9.13 Severability Clause

The provisions of this permit are severable. In the event of a challenge to any portion of the permit, other portions of the permit may continue to be in effect. Should any portion of this permit be determined to be illegal or unenforceable, the validity of the other provisions shall not be affected and the rights and obligations of the Permittee shall be construed and enforced as if this permit did not contain the particular provisions held to be invalid and the applicable requirements underlying these provisions shall remain in force [Section 39.5(7) (i) of the Act].

### 9.14 Permit Expiration and Renewal

Upon the expiration of this permit, if the source is operated, it shall be deemed to be operating without a permit unless a timely and complete CAAPP application has been submitted for renewal of this permit. However, if a timely and complete application to renew this CAAPP permit has been submitted, the terms and all conditions of this CAAPP permit will remain in effect until the issuance of a renewal permit [Section 39.5(5) (l) and (o) of the Act].

Note: Pursuant to Sections 39.5(5) (h) and (n) of the Act, upon submittal of a timely and complete renewal application, the permitted source may continue to operate until final action is taken by the Illinois EPA on the renewal application, provided, however, that this protection shall cease if the applicant fails to submit any additional information necessary to evaluate or take final action on the renewal

application as requested by the Illinois EPA in writing. For a renewal application to be timely, it must be submitted no later than 9 months prior to the date of permit expiration.

9.15 General Authority for the Terms and Conditions of this Permit

The authority for terms and conditions of this permit that do not include a citation for their authority is Section 39.5(7)(a) of the Act, which provides that the Illinois EPA shall include such provisions in a CAAPP permit as are necessary to accomplish the purposes of the Act and to assure compliance with all applicable requirements. Section 39.5(7)(a) of the Act is also another basis of authority for terms and conditions of this permit that do include a specific citation for their authority.

Note: This condition is included in this permit pursuant to Section 39.5(7)(n) of the Act.

## 10.0 ATTACHMENTS

### Attachment 1 Example Certification by a Responsible Official

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Official Title: \_\_\_\_\_

Telephone No.: \_\_\_\_\_

Date Signed: \_\_\_\_\_



Attachment 2 Emissions of Particulate Matter from Process Emission Units

- a. New Process Emission Units for Which Construction or Modification Commenced On or After April 14, 1972 [35 IAC 212.321].
- i. No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit which, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in subsection (c) of 35 IAC 212.321 [35 IAC 212.321(a)].
- ii. Interpolated and extrapolated values of the data in subsection (c) of 35 IAC 212.321 shall be determined by using the equation [35 IAC 212.321(b)]:

$$E = A(P)^B$$

where:

P = Process weight rate; and  
E = Allowable emission rate; and,

- A. Up to process weight rates of 408 Mg/hr (450 T/hr):

	<u>Metric</u>	<u>English</u>
P	Mg/hr	T/hr
E	kg/hr	lb/hr
A	1.214	2.54
B	0.534	0.534

- B. For process weight rate greater than or equal to 408 Mg/hr (450 T/hr):

	<u>Metric</u>	<u>English</u>
P	Mg/hr	T/hr
E	kg/hr	lb/hr
A	11.42	24.8
B	0.16	0.16

iii. Limits for Process Emission Units For Which Construction or Modification Commenced On or After April 19, 1972 [35 IAC 212.321(c)]:

Metric P <u>Mg/hr</u>	E <u>kg/hr</u>	English P <u>T/hr</u>	E <u>lb/hr</u>
0.05	0.25	0.05	0.55
0.1	0.29	0.10	0.77
0.2	0.42	0.2	1.10
0.3	0.64	0.30	1.35
0.4	0.74	0.40	1.58
0.5	0.84	0.50	1.75
0.7	1.00	0.75	2.40
0.9	1.15	1.00	2.60
1.8	1.66	2.00	3.70
2.7	2.1	3.00	4.60
3.6	2.4	4.00	5.35
4.5	2.7	5.00	6.00
9.0	3.9	10.00	8.70
13.0	4.8	15.00	10.80
18.0	5.7	20.00	12.50
23.0	6.5	25.00	14.00
27.0	7.1	30.00	15.60
32.0	7.7	35.00	17.00
36.0	8.2	40.00	18.20
41.0	8.8	45.00	19.20
45.0	9.3	50.00	20.50
90.0	13.4	100.00	29.50
140.0	17.0	150.00	37.00
180.0	19.4	200.00	43.00
230.0	22.0	250.00	48.50
270.0	24.0	300.00	53.00
320.0	26.0	350.00	58.00
360.0	28.0	400.00	62.00
408.0	30.1	450.00	66.00
454.0	30.4	500.00	67.00

b. Existing Process Emission Units for Which Construction or Modification Prior to April 14, 1972 [35 IAC 212.322].

i. No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any process emission unit for which construction or modification commenced prior to April 14, 1972, which, either alone or in combination with the emission of particulate matter from all other similar process emission units at a source or premises, exceeds the allowable emission rates specified in subsection (c) of 35 IAC 212.322 [35 IAC 212.322(a)].

ii. Interpolated and extrapolated values of the data in subsection (c) of 35 IAC 212.321 shall be determined by using the equation [35 IAC 212.322(b)]:

$$E = C + A(P)^B$$

where:

P = Process weight rate; and

E = Allowable emission rate; and,

A. Up to process weight rates up to 27.2 Mg/hr (30 T/hr):

	<u>Metric</u>	<u>English</u>
P	Mg/hr	T/hr
E	kg/hr	lb/hr
A	1.985	4.10
B	0.67	0.67
C	0	0

B. For process weight rate in excess of 27.2 Mg/hr (30 T/hr):

	<u>Metric</u>	<u>English</u>
P	Mg/hr	T/hr
E	kg/hr	lb/hr
A	25.21	55.0
B	0.11	0.11
C	- 18.4	- 40.0

iii. Limits for Process Emission Units For Which Construction or Modification Commenced Prior to April 14, 1972 [35 IAC 212.322(c)]:

Metric P <u>Mg/hr</u>	E <u>kg/hr</u>	English P <u>T/hr</u>	E <u>lb/hr</u>
0.05	0.27	0.05	0.55
0.1	0.42	0.10	0.87
0.2	0.68	0.2	1.40
0.3	0.89	0.30	1.83
0.4	1.07	0.40	2.22
0.5	1.25	0.50	2.58
0.7	1.56	0.75	3.38
0.9	1.85	1.00	4.10
1.8	2.9	2.00	6.52
2.7	3.9	3.00	8.56
3.6	4.7	4.00	10.40
4.5	5.4	5.00	12.00
9.0	8.7	10.00	19.20
13.0	11.1	15.00	25.20
18.0	13.8	20.00	30.50
23.0	16.2	25.00	35.40
27.2	18.15	30.00	40.00
32.0	18.8	35.00	41.30
36.0	19.3	40.00	42.50
41.0	19.8	45.00	43.60
45.0	20.2	50.00	44.60
90.0	23.2	100.00	51.20
140.0	25.3	150.00	55.40
180.0	26.5	200.00	58.60
230.0	27.7	250.00	61.00
270.0	28.5	300.00	63.10
320.0	29.4	350.00	64.90
360.0	30.0	400.00	66.20
400.0	30.6	450.00	67.70
454.0	31.3	500.00	69.00

Attachment 3 Compliance Assurance Monitoring (CAM) Plan

There are no specific emission units that require a CAM plan as identified in the Monitoring Requirements of Subsection 8 for each Section 7, Unit Specific Conditions for Specific Emission Units.

#### Attachment 4 Guidance

The Illinois has prepared guidance for sources on the Clean Air Act Permit Program (CAAPP) that is available on the Internet site maintained by the Illinois EPA, [www.epa.state.il.us](http://www.epa.state.il.us). This guidance includes instructions on applying for a revision or renewal of the CAAPP permit.

##### Guidance On Revising A CAAPP Permit:

[www.epa.state.il.us/air/caapp/caapp-revising.pdf](http://www.epa.state.il.us/air/caapp/caapp-revising.pdf)

##### Guidance On Renewing A CAAPP Permit:

[www.epa.state.il.us/air/caapp/caapp-renewing.pdf](http://www.epa.state.il.us/air/caapp/caapp-renewing.pdf)

The application forms prepared by the Illinois EPA for the CAAPP are also available from the Illinois EPA's Internet site:

[www.epa.state.il.us/air/caapp/index.html](http://www.epa.state.il.us/air/caapp/index.html)

These CAAPP application forms should also be used by a CAAPP source when it applies for a construction permit. For this purpose, the appropriate CAAPP application forms and other supporting information, should be accompanied by a completed Application For A Construction Permit form (199-CAAPP) and Fee Determination for Construction Permit Application form (197-FEE):

[www.epa.state.il.us/air/caapp/199-caapp.pdf](http://www.epa.state.il.us/air/caapp/199-caapp.pdf)

[www.epa.state.il.us/air/permits/197-fee.pdf](http://www.epa.state.il.us/air/permits/197-fee.pdf)

JMY:psj

10.5 ATTACHMENT 5 Summary of Storage Tank Features and Groupings

<u>Group/Tank #</u>	<u>Capacity (Barrels)</u>	<u>Tank Type</u>	<u>Primary Seal</u>	<u>Secondary Seal</u>	<u>Material Stored</u>	<u>Expected Max. Vapor Pressure (psia at 70°)</u>	<u>Date Constructed</u>
Group 1							
Tank 700	240,000	External floating roof	shoe- mounted	None	Crude Oil	9.6	1967
Tank 701	240,000	External floating roof	Metallic shoe- mounted	None	Crude Oil	9.6	1967
Tank 702	240,000	External floating roof	Metallic shoe- mounted	None	Crude Oil	9.6	1967
Tank 703	240,000	External floating roof	shoe- mounted	None	Crude Oil	9.6	1967
Tank 704	240,000	External floating roof	Metallic shoe- mounted	None	Crude Oil	9.6	1967
Tank 712	360,000	External floating roof	Metallic shoe- mounted	None	Crude Oil	9.6	1971
Tank 714	240,000	External floating roof	Metallic shoe- mounted	None	Crude Oil	9.6	1967
Tank 715	120,000	External floating roof	shoe- mounted	None	Crude Oil	9.6	1967
Tank 716	240,000	External floating roof	Metallic shoe- mounted	None	Crude Oil	9.6	1967
Tank 717	120,000	External floating roof	shoe- mounted	None	Crude Oil	9.6	1967

<u>Group/Tank #</u>	<u>Capacity (Barrels)</u>	<u>Tank Type</u>	<u>Primary Seal</u>	<u>Secondary Seal</u>	<u>Material Stored</u>	<u>Expected Max. Vapor Pressure (psia at 70°)</u>	<u>Date Constructed</u>
Tank 707	268,000	External floating roof	Metallic shoe- mounted	None	Crude Oil	9.6	1971
Tank 711	240,000	External floating roof	Metallic shoe- mounted	None	Crude Oil	9.6	1972
Group 2 Tank 710	360,000	External floating roof	shoe- mounted	None	Crude Oil	9.6	1973
Tank 713	360,000	External floating roof	shoe- mounted	None	Crude Oil	9.6	1973
Tank 718	360,000	External floating roof	shoe- mounted	None	Crude Oil	9.6	1974
Tank 719	400,000	External floating roof	Metallic shoe- mounted	None	Crude Oil	9.6	1975
Tank 720	400,000	External floating roof	Shoe- mounted	None	Crude Oil	9.6	1975
Tank 722	400,000	External floating roof	Liquid- mounted	None	Crude Oil	9.6	1975
Tank 706	360,000	External floating roof	Metallic shoe- mounted	None	Crude Oil	9.6	1977
Tank 708	360,000	External floating roof	Metallic shoe- mounted	None	Crude Oil	9.6	1974
Tank 709	360,000	External floating roof	Metallic shoe- mounted	None	Crude Oil	9.6	1975



